

# Introduction to Femtosecond X-ray Experiments at X-ray Free Electron Lasers by Christian Bressler (EuXFEL, Universität Hamburg)

*Tuesday 4 February 2025 11:15 (1 hour)*

We will introduce the concept of x-ray free electron lasers, and provide a few examples, where it resolves new information not obtainable with Synchrotron Radiation or femtosecond laser spectroscopy methods. The central part features a detailed walk-through an XFEL beamline to see, how these experiments are actually done. This walkthrough features an advanced pump-probe experiment with live data to study a reacting molecular system with femtosecond time precision.